
Welcome to the sPHENIX –
“New RHIC Detector” Collaboration
Meeting

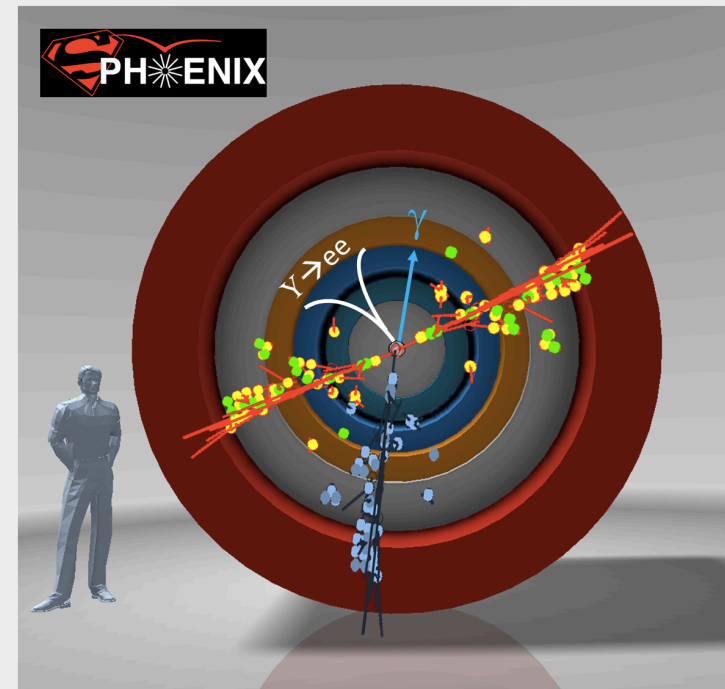
John Harris
Yale University

sPHENIX Proposal (2012 – 2014)

Upgrade Proposal from the PHENIX Collaboration

- Original: July 1, 2012
- Updated: October 1, 2013
- Updated: June 19, 2014
- Updated: November 19, 2014

Dave Morrison & Jamie Nagle
(Co-spokespersons)



“New RHIC Detector Collaboration”

- **June 16, 2015** – sPHENIX / New RHIC Detector Workshop organized by B. Müller.



- **June 23, 2015** – B. Müller moves to form a [New RHIC Detector Collaboration](#) (based on sPHENIX Proposal).
- All interested groups invited to join by **July 16, 2015**.

Institutional Board

- 57 Institutions signed up
- 1st “New Detector” Institutional Board Mtg (Aug. 26, 2015)
 - Discussed Building the Collaboration
 - Discussed Governing/Management Structure & Roles
 - Project, collaboration, spokesperson
 - Formed Bylaws Committee & Identified Chair (Bill Zajc)
 - Discussed Plan for Formation of Nomination Committee & Chair
 - Discussed Issues Related to Identifying the Spokesperson
 - Discussed only Briefly other Possible Future Committees
 - e.g. Pub Policies, Conference Committee / Speaker’s Bureau, ...
 - Announced First Collaboration Meeting

FYI - “New Detector” Institutions

57 institutions signed up: Abilene Christian, Augustana College, Banaras Hindu University (India), Baruch College, CUNY, BNL and BNL (PHENIX), UC-Davis, UCLA, UCR, Chonbuk National University (South Korea), Colorado, Columbia, Joint Czech Group (Charles University): Prague Czech Technical University, Prague Institute of Physics, Czech Academy of Sciences – Prague; University of Debrecen, Florida State, Georgia State, Howard University, Houston, sPHENIX (Hungary), Illinois – U.C., Institute of Nuclear Research, Russian Academy of Sciences, Moscow, Iowa State, University of Jammu (India), JAEA (Japan Atomic Energy Agency), Korea University, National Research Centre “Kurchatov Institute”, Lehigh, LLNL, LANL, Maryland, MIT, Michigan, National Research Nuclear University (Moscow Engineering Physics Institute), Muhlenberg College, Nara Women’s University (Japan), New Mexico State, University of New Mexico, ORNL, Ohio University, Institut de Physique Nucléaire d’Orsay, Petersburg Nuclear Physics Institute (National Research Centre “Kurchatev Institute”), IHEP (Protvino), RIKEN/RBRC, Rikkyo University, Rutgers, Stony Brook, Saint-Petersburg Polytechnic University, Tennessee - Knoxville, Texas - Austin, Tokyo Institute of Technology (Tokyo Tech, TITech), University of Tokyo (Center for Nuclear Study), Institute of Physics - University of Tsukuba, Universidad Técnica Federico Santa María - Valparaíso (Chile), Vanderbilt, Wayne State, Weizmann Institute, Yale, Yonsei University (Korea).

Bylaws Committee

Endorsed September 30, 2015 by Institutional Board:

Bylaws Committee

- Chair – Bill Zajc, Columbia
- Christine A. Aidala, U. Michigan
- Yasuyuki Akiba, RIKEN
- Daniel Cebra, UC-Davis
- Rosi Reed, Lehigh
- Gunther Roland, MIT
- Alexander Milov, Weizmann Institute

Proposal for Bylaws presented to the IB on Dec. 1. To be discussed at this meeting and IB.

Nomination Committee

Endorsed October 16, 2015 by Institutional Board:

Spokesperson Nomination Committee

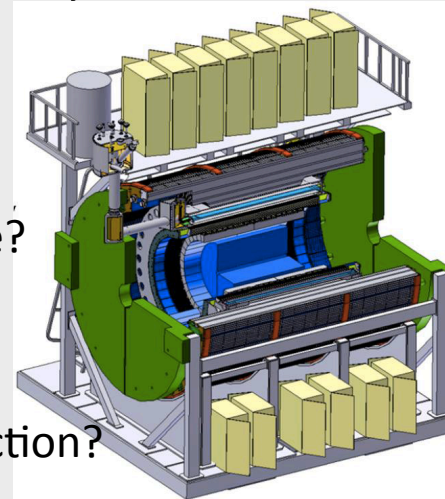
- Chair – Huan Zhong Huang, UCLA
- Shinichi Esumi, U. Tsukuba
- Ann Sickles, Illinois
- Ken Barish, UC - Riverside
- Vicki Greene, Vanderbilt
- John Haggerty, BNL
- Tom Hemmick, Stony Brook
- Youngil Kwon, Yonsei
- John Lajoie, Iowa State
- Sevil Salur, Rutgers

Present slate of candidates presented to IB on Dec. 6. Nominations still open until two weeks prior to election (~ January, details forthcoming)

Can't Leave without a Little Physics!

IMHO – to be a success as the last RHIC experiment – **a challenge!**

- We need to build a **stronger collaboration** and experiment!
 - incorporate others, consider evolving physics / detector interests! This may not be easy – timing, funding... but... what physics do we really want & need?
- Consideration of **evolving physics**
 - Physics evolving & needs some new thinking! :-)
 - Interaction between Soft & Hard physics (data to push theory also)?
Differential quantities (correlated), large data sets
(hard probe trigger, event selection, v_2 & R_{AA} of light & heavy flavors
 - DAQ & trigger rate probably sufficient (?)
 - Detectors (tbd) and rates sufficient?
 - Forward Physics (pre-EIC)?
 - fsPHENIX or other (STAR-type?), Babar magnet flux return issue?
 - RHIC Spin (“recapture” spin & spin people to BNL) ?
 - STAR interests (post 2020) all of the above with
 - Thin inner tracking (next gen HFT), heavy flavor and event selection?



Today!

Inaugural Collaboration Meeting

- IB Meeting this evening, all are invited.

(Bylaws, Spokesperson Election, + other discussions)

Spokesperson will be Elected in January 2016

Looking forward to building a strong & effective collaboration committed to success in the construction, operation & physics!

